CLAIMS

- 1. Transdermal therapeutic system, comprising a backing layer inert to the components of the matrix, a self-adhesive matrix layer containing (-)-5,6,7,8-tetrahydro-6-[propyl-[2-(2-thienyl)ethyl]amino]-1-naphthalenol in an effective amount and a protective foil or sheet to be removed prior to use, characterised by a matrix that is based on a non-aqueous, acrylate-based or silicone-based polymer adhesive system having a solubility of ≥5% (w/w) for (-)-5,6,7,8-tetrahydro-6-[propyl-[2-(2-thienyl)ethyl]-amino]-1-naphthalenol, and said matrix is substantially free of inorganic silicate particulates.
- 2. Transdermal therapeutic system according to claim 1 that contains <0.5% (w/w) inorganic silicate particulates.
- 3. Transdermal therapeutic system according to claim 1 that contains <0.05% (w/w) inorganic silicate particulates.
- 4. Transdermal system according to claim 1 in which the acrylate-based polymer adhesive contains at least two of the following monomers: acrylic acid, acrylamide, hexylacrylate, 2-ethylhexylacrylate, hydroxyethylacrylate, octylacrylate, butylacrylate, methylacrylate, glycidylacrylate, methacrylic acid, methacrylamide, hexylmethacrylate, 2-ethylhexylmethacrylate, octylmethacrylate, methylmethacrylate, glycidylmethacrylate, vinylacetate or vinylpyrrolidone.
- 5. Transdermal system according to claim 1 in which the silicone-based polymer adhesive includes additives to enhance the solubility of (-)-5,6,7,8-tetrahydro-6-[propyl-[2-(2-thi nyl)ethyl]amino]-1-naphthalenol in the form of hydrophilic polymers or glycerol or glycerol derivatives.

- 6. Transdermal system according to claim 4 or 5 in which (-)-5,6,7,8-tetrahydro-6-[propyl-[2-(2-thienyl)ethyl]-amino]-1-naphthalenol is contained in the acrylate-based polymer adhesive in a concentration of from 10 to 40% (w/w), or in the silicone-based polymer adhesive in a concentration of from 5 to 25% (w/w).
- 7. Transdermal system according to claim 6 that contains substances that enhance the permeation of (-)-5,6,7,8-tetrahydro-6-[propyl-[2-(2-thienyl)ethyl]amino]-1-naphthalenol into the human skin.
- 8. Transdermal system according to claim 7 in which the permeation-enhancing substance is selected from the group of fatty alcohols, fatty acids, fatty acid esters, fatty acid amides, glycerol or its derivatives, N-methyl-pyrrolidone, terpenes or terpene derivatives.
- 9. Transdermal system according to claim 8 in which the permeation-enhancing substance is oleic acid or oleyl alcohol.
- 10. Transdermal system according to claim 5, in which the hydrophilic polymer is polyvinylpyrrolidone, a copolymer of vinylpyrrolidone and vinylacetate, polyethyleneglycol, polypropylene glycol or a copolymer of ethylene and vinylacetate.
- 11. Transdermal system according to claim 10 wherein the hydrophilic polymer is soluble polyvinylpyrrolidone being present in the active substance-containing matrix layer at a concentration of 1.5 5% (w/w).
- 12. Transdermal system according to claim 1 in which the matrix contains inert fillers to improv cohesion.

- 13. A process for preparing a transdermal therapeutic system, comprising the following steps:
- i) mixing a suspension of (-)-5,6,7,8-tetrahydro-6[propyl-[2-(2-thienyl)ethyl]amino]-1-naphthalenol
 hydrochloride in ethanol with an alkaline compound in
 ethanol to convert the hydrochloride into the free base,
 ii) optionally filtering the resultant suspension,
 iii) adding polyvinylpyrrolidone and a solution of an

adhesive, and iv) drying the product.

- 14. A process according to claim 13 wherein, as alkaline compound, sodium hydroxide or potassium hydroxide are used.
- 15. A process according to claim 13 wherein, as alkaline compound, sodium metasilicate or potassium metasilicate, or sodium or potassium trisilicate are used.
- 16. The process of claim 13 wherein before drying the product, the mixture is spread on an inert backing layer or protective foil or sheet in such a manner as to produce a uniform film.
- 17. A product prepared by a process according to one of the claims \$\frac{1}{5}\) to 16.